



INSTALLATION GUIDE

ISNORKELO37

VOLKSWAGEN AMAROK

CNEA 2.0L Turbo Diesel and DDXC 3.0L Turbo Diesel



- Ironman 4x4 Snorkel fits to the right hand side of the Volkswagen Amarok, both flared and non-flared models.
- It will take about 4 hours to install.
- Below is a list of some required tools for installing your Ironman 4x4 Snorkel:
 - **Hole Saw (102mm)**
 - **Air Hacksaw**
 - **Drill (7.5mm)**
 - **Die Grinder**
 - **Step Drill**
 - **Pop-Rivet Gun**

NOTE: Only use “sensor safe” sealant during installation

IMPORTANT: Snorkel installations should only be done by a qualified person and it is the responsibility of this person to ensure correct fitment and to ensure the installation is water tight.

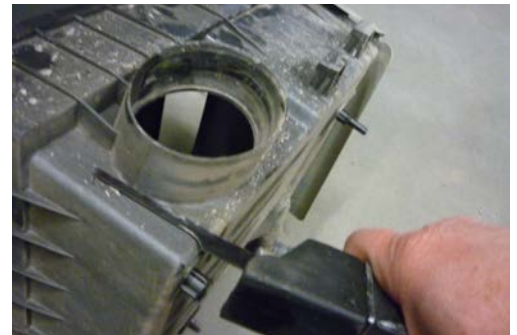
1. Before installation check snorkel application is compatible with your vehicle.

2. Remove right hand front mud flap, wheel arch liner, air box, intake pipe to air box and washer bottle.



AIR BOX MODIFICATION

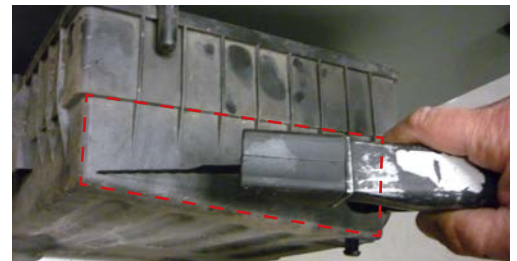
3. Using an air hacksaw or similar, remove air intake snout from air box.



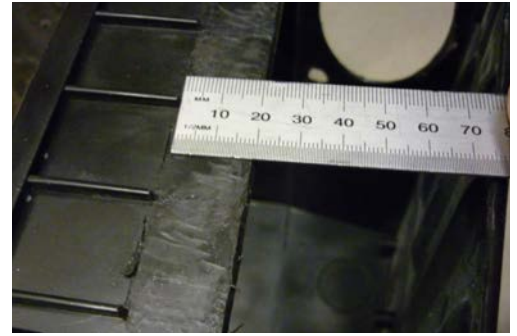
4. Using a die grinder, remove ribs from above hole as shown.



5. Using an air hacksaw, cut away lower side section of air box as shown.



6. Using a die grinder, flatten ribs 20mm above opening.



7. Photograph shows air box before and after modification.



8. Apply a liberal amount of silicone around openings on air box as shown.



9. Fit aluminium adapter and hold firmly in position. Drill through mounting holes using a 4mm drill.



10. Secure in place using pop rivets provided.

NOTE: Check around aluminium adapter for potential leaks and seal as required.



11. Completed air box.



INSTALLATION

12. Apply masking tape to front mudguard and right hand windscreen pillar.



13. Tape template to mudguard making sure it is lined up with top of mudguard (bonnet opening) and rear of mudguard (door opening).

Using a felt tipped pen, mark all holes through template onto mudguard. Remove template.



14. Drill six stud mounting holes to 16mm and 12mm as shown on template.

NOTE: When drilling 12mm holes through flare, drill holes downwards at right angles to surface of flare.

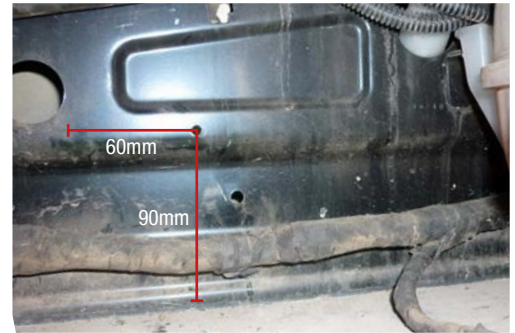
Using a 102mm hole saw, cut the remaining hole for air entry.

De-burr and rust-proof all holes. This applies to all holes or cutting after this step.



15. Detach wiring loom from side of engine bay as shown. Mark hole location 90mm from top surface of wheel arch in engine bay and 60mm back from rear edge of hole in inner guard as shown.

Drill a 6mm pilot hole.

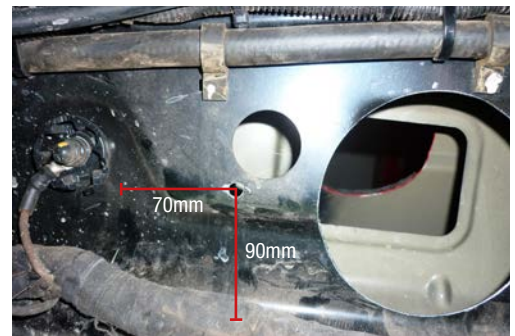


16. Using extreme care not to damage wiring loom, cut a hole using a 102mm hole saw as shown.



17. Mark second hole 90mm from top surface of wheel arch in engine bay and 70mm back from earth stud (if equipped) on inner guard (if not equipped refer to second photograph).

Drill a 6mm pilot hole.



Mark 70mm from edge of hole as shown above

18. Cut a second 102mm hole in inner guard.

Using an air hack saw or similar cut a straight line between upper and lower edges of holes as shown.



19. Temporarily place air box in position in engine bay. Through hole cut in mud guard, mark section to be cut away on inner panel. Remove air box.

NOTE: Allow 10mm clearance for hose.



20. Using an air hack saw, cut section away marked in previous step.



21. Fit M8 studs using lock tight thread lock.

NOTE: The two longer studs go in the bottom mounting holes on snorkel body.

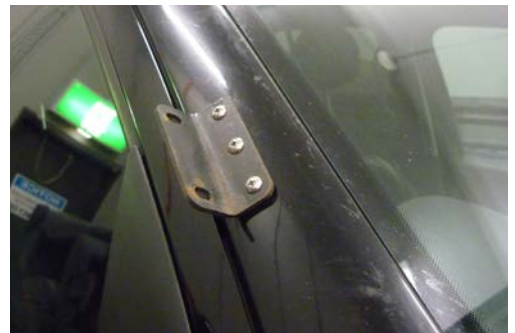
22. Temporarily fit pillar bracket to snorkel body. Hold snorkel body in position on mud guard. Using a ball point pen, mark position of top bracket on windscreen pillar. Remove snorkel body and remove bracket.



23. Hold pillar bracket in position previously marked and mark three mounting holes. Drill holes to 7.5mm.



24. Apply silicone sealant. Insert mounting plugs and attach mounting bracket to screen pillar using self tapping screws provided.



25. Attach hose to air box adaptor as shown. Place extra hose clamp in position and refit air box to engine bay.



26. Install snorkel body to vehicle using M8 Nyloc nuts and body washers provided and attach to pillar bracket using M6 bolts provided.

NOTE: Top rear stud can be accessed via cavity near bonnet hinge.

For non-flared models, infill wedge is supplied to fill gap at bottom of snorkel.



27. Secure intake hose to snorkel using hose clamp.



28. Check all hose connections and air box for potential leaks and seal as required.

29. Re-fit washer bottle, mud guard liner and mud flap.

30. Fit Ironman 4x4 Air Ram and secure with hose clamp provided.

